BNL RADIOLOGICAL WORK PERMIT (RWP)			RROOKHAVEN
RWP #_ 08-0	2		NATIONAL LABORATORY
RWP Type: X Job Specific General Start Date Shaded area 1 through 6 to be completed by requester / initiator		08 End Date 07/31/09	Revised End Date
' 'tiator: Ray Karol 2. Life #:15065 3. Phone #:5272 4. Bldg:: 911A			
5 J Location: Posted High Radiation Beam Areas: Bldg 930 LINAC Tunnel (Excluding the BLIP Beam Line). Building 942			
(Booster Ring), Building 913 (AGS Ring), Building 956 (NSRL, stub tunnel) and ATR.			
6. Job Description: Routine Entry for inspections, Data Collection, Tours, and Routine Work Activities Performed by a System			
Specialist			
7. Radiological Concerns: (e.g. Primary radionuclides, high dose rate, airborne) Greater than 1 R/hr may exist Following Operations with High Intensity Protons at Various Limiting Apertures (e.g., E20,F5, F10, J10, and L20 in the AGS Ring, and C5, F5, and F6 in the Booster Ring).			
8. Conditions that will void RWP: This RWP is not for work in Radiation Fields > 1 R/h, in posted Contamination Areas, Work with the potential to			
disperse or generate radioactive contamination such as Cutting, Grinding and Drilling, Handling or exposure to tritated water, or unapproved alterations of			
radiation barriers. 9. Job Review: 10. Estimated Dose: (mrem)		chments: 12.	Training Requirements:
		chments: 12. ological Survey Form	•
X Pre-Job Review Highest Individual 20 mRem	X (Pe	osted at entrance to area) X	Radiation Worker (RWT 002)
ALARA Review Per-Job	Tech	nnical Work Document	RBA Practical (RWT 002A)X
Pre-Job Brief X Per Entry	X Othe	er: Pre Job Review	Contamination (RWT 300 / 300A)
Post-Job Review Collective 200 mRem		C-A OPM-ATT 9.5.11	Benchtop/dispersibles (RWT 500)
Work Control Coordinator to X Per Job		See SI (1)	Other C-A Access – See SI (2)
consult with Building Manager Per Entry Not Applicable and/or Supervisor when			
assigning tasks. All work			
performed in Radiation Fields >			
100 mRem/hr. notify Health Physics X-4660.			
13. Work Controls: 14. Protective Equipment: 15.	Dosimetry:	16. Check Out	Instructions:
X FS Coverage See SI (3) Gloves X	TLD	Bioassay	Contamination Check
Intermittent Shoe Covers X Self Reading Dosimeter Whole Body Count Personnel Frisk			
Continuous Booties X Alarming Dosimeter Urine Sample PCM			
Pre-Job Briefing Coveralls Finger Dosimetry Pre-Job Equipment Tools			
Limiting Conditions Respirator Not Applicable Post-Job Post Job Survey See SI (3)			
Hold Points Head Cover (Dose Alarm Setpoint = Not Applicable			
Air Monitoring X Activation Check See SI (6)			
Shielding X Not Applicable			
X Other See SI (5)			
17. Expected Radiological Conditions			
Radiation N/A Surface Contami	<u>ination</u>	X N/A	Airborne Radioactivity X N/A
General Area: 1 to 900 mrem/h, See posted survey Removable:		dpm/100cm^2 Alpha dpm/100cm^2 Beta/Gamm	Nuclide Concentration
On Contact: See posted survey Removable: Gamma X Neutron Removable:		dpm/100cm ² Tritium	
Beta Check all that apply Total:		dpm/100cm^2 Alpha	
Total: dpm/100cm/\(^2\) Beta/Gamma			
18. Special Instructions (Hold Points, Limiting Conditions, Special Dose Limits, etc.)			
(1) Follow Guidance in OPM 9.5.11, C-A Procedure for Entry to Posted High Radiation Areas.			
(2) A trained and authorized C-A escort in accordance with C -A OPM 2.16 may escort visitors.			
(3) When work is to be performed in Radiation Fields > 100 mR h			
single entry shall result in more than 20 mR per person. Multi	ple entries for	r one job shall be planned so the	at they do not result in greater than 20 mR
per person or a Job-Specific RWP is required. (4) This RWP is not for work in Radiation Fields > 1000mR hr ⁻¹ , in posted Contamination Areas, Work with the potential to disperse or generate			
radioactive contamination such as Cutting, Grinding and Drilling, Handling or exposure to tritiated water, or unapproved alterations of radiation			
barriers.			
(5) Review appropriate radiological survey prior to commencing w			
(6) Many locations require activation checks, See attachment 1 of this RWP for Summary of "Activation Check" Rules. Follow all postings.			
19. Approvals Signatures		Life Number	Date
Initiator John Control		15065	7/18/08
Pacility Support Representative Department (As Required) Thursday There	10.00	19773	7/18/08
Department (As Required) Column Out Signatures ES Bon	www.	14255	7-21-08

RWP-08-02

Attachment 1

Attachment 8.2

SUMMARY OF "ACTIVATION CHECK" RULES

Items that REQUIRE an RCT survey before removal from an area posted "activation check" are:

- ✓ Floor sweepings
- ✓ Fixed structures
- ✓ Installed components
- ✓ Shielding
- ✓ Items of unknown origin

Items that DO NOT REQUIRE an RCT survey before removal from the area posted "activation check" are:

- ✓ Items under your control at all times after removal from the posted area that are being moved to a low-background area for radiation monitoring
- ✓ Items that are labeled, under your control at all times and that are moving from the posted area to a Radiation Area, High Radiation Area, RMA or Controlled Area
- ✓ Items that you carried into the area that you know not to be activated